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permeable core, said stator further comprising first and second coilheads located at opposite axial ends of said magnetically permeable core;

each of said winding slots including an insulative top liner located radially inward of said conductive windings located therein;

a movable rotor located radially inward of said stator;

an electrostatic shield arrangement being formed by an insulative layer of resin material covered by a conductive layer located radially inward thereof;

said insulative layer and said conductive layer being conformally applied to said stator so as to be located in said winding slots radially inward of said respective top liner and an inside surface of said first and second coilheads to interpose said conductive windings and said rotor; and

an insulating, protective top coat applied over said conductive layer on an inner surface of said stator.

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9. (Twice Amended) An electromechanical machine comprising:  
a fixed stator having conductive windings located in a plurality of parallel, axially extending winding slots defined in a magnetically permeable core;

a movable rotor operative to have a magnetic flux induced therein by excitation of said conductive windings of said stator;

an insulative layer having a conformal structure characteristic of a resin that had been applied to said stator in an uncured state after said conductive windings were placed in said winding slots and subsequently cured to yield a predetermined layer thickness between said conductive windings and said rotor; and

a conductive layer of metallic paint bonded to said insulative layer and thereby separated from said conductive windings, said insulative layer and said conductive layer thereby forming an electrostatic shield arrangement interposing said conductive windings and said rotor; and

an insulating, protective top coat applied over said conductive layer on an inner surface of said stator.

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Please add the following new claims as set forth below:

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16. (New) An electromechanical machine comprising:  
a stator having conductive windings located in a plurality of parallel, axially extending winding slots defined in a magnetically permeable core;  
a rotor disposed axially within said stator;  
an electrostatic shield comprising a conductive layer disposed on an inner surface of said stator at least opposite said rotor and electrically insulated from said conductive windings of the stator; and  
an insulative layer disposed over said electrostatic shield between said conductive windings of said stator and said rotor.

17. (New) An electromechanical machine as set forth in claim 16, further comprising an insulative layer having a conformal structure characteristic of a resin that had been applied to said stator in an uncured state after said conductive windings were placed in said winding slots and subsequently cured to yield a predetermined layer thickness between said conductive windings and said rotor.

18. (New) An electromechanical machine as set forth in claim 17, wherein said cured resin is a glass-filled thermoset resin.

19. (New) An electromechanical machine as set forth in claim 17, wherein said predetermined thickness of said insulative layer is at least approximately 0.012 inches.

20. (New) An electromechanical machine as set forth in claim 16, wherein said conductive layer comprises a conductive paint bonded to said stator.